

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference S03P0262WO00	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/JP03/02589	International filing date (day/month/year) March 5, 2003	(Earliest) Priority Date (day/month/year) March 5, 2002
Applicant SONY CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.
☐ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (see Box I).
2. ☐ Unity of invention is lacking (see Box II).
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
 - ☐ filed with the international application.
 - ☐ furnished by the applicant separately from the international application,
 - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - ☐ Transcribed by this Authority
4. With regard to the title, ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,
 - ☐ the text is approved as submitted by the applicant.
 - ☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:
 Figure No. 1 ☒ as suggested by the applicant. ☐ None of the figures.
☐ because the applicant failed to suggest a figure.
☐ because this figure better characterizes the invention.

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Quality deterioration caused by a small-sized pickup lens can be corrected by a processing of a picked up image signal and can perform preferable correction when performing camera shake correction. An output signal from a camera signal processing circuit (4) is selected by a selector switch (5) and supplied to a chromatic aberration correction unit (6). On the other hand, an angular speed by camera shake is detected by using sensors (7P, 7Y) and supplied to a camera shake correction vector calculation unit (9). Moreover, a drive state of a pickup lens (1) is supplied to a conversion ratio calculation unit (10).

The shift vector at the center of the optical axis of the pickup lens (1) is calculated from the camera shake correction vector and supplied to the chromatic aberration correction unit (6). Moreover, the conversion ratio for each color is supplied to the chromatic aberration correction unit (6). Furthermore, the signal which has been corrected by the chromatic aberration correction unit (6) is compressed and supplied to a recording/reproduction device (17) to a recording medium. Moreover, the reproduction signal from the recording/reproduction device (17) is decompressed and supplied to the selector switch (5).

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/02589

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H04N5/232, 9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H04N5/222-5/257, 9/04-9/11

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Japanese Utility Model Publication Gazette 1972-1999

Japanese Utility Model Laid Open Gazette 1971-2003

Registered Utility Model Specification 1994-2003

Japanese Utility Model Registration Gazette 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 6-237411 A (Olympus Optical Co., Ltd.), 23 August, 1994 (23.08.94), Full text; all drawings (Family: none)	1-10
Y	JP 5-3568 A (Canon Inc.), 08 January, 1993 (08.01.93), Full text; all drawings (Family: none)	1-10
Y	JP 5-328283 A (Sony Corp.), 10 December, 1993 (10.12.93), Full text; all drawings (Family: none)	3, 5, 8, 10

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
10 June, 2003 (10.06.03)Date of mailing of the international search report
24 June, 2003 (24.06.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer 5P/9373

Examiner, Patent Office

Facsimile No.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/02589

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-149403 A (Sharp Corp.), 07 June, 1996 (07.06.96), Full text; all drawings (Family: none)	4, 5, 9, 10
Y	JP 4-215378 A (Matsushita Electric Industrial Co., Ltd.), 06 August, 1992 (06.08.92), Full text; all drawings (Family: none)	4, 5, 9, 10
Y	JP 5-22697 A (Canon Inc.), 29 January, 1993 (29.01.93), Full text; all drawings (Family: none)	4, 5, 9, 10